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RAW SEQUENCE LISTING DATE: 06/25/2001 PATENT APPLICATION: US/09/777,566A TIME: 11:28:44

Input Set : A:\DIVER1370-6.ST25.txt

Output Set: N:\CRF3\06252001\I777566A.raw

ENTERED

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	4		SI	HORT	, Ja	1							٠					
	5		KI	RETZ	, Ke:	Lth												
	7	<120	> T	TLE	OF :	INVE	OIT	N: RE	ECOM	BINA	NT BA	ACTE	RIAL	PHY	rases	S ANI	USES	THEREOF
	9	<130	> F	LE E	REFE	RENCE	E: D:	[VER	L370-	-6					•			
	11	<140	> Cī	JRREI	NT A	PLIC	CATIO	ом ис	JMBEI	R: US	3 09,	/777	, 5662	Ą				
C>																		
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	46	atg	aaa	gcg	atc	tta	atc	cca	ttt	tta	tct	ctt	ctg	att	ccg	tta	acc	48
	47	Met	Lys	Ala	Ile	Leu	Ile	Pro	Phe	Leu	Ser	Leu	Leu	Ile	Pro	Leu	Thr	
	48	1				5					10					15		
		ccg																96
	51	Pro	Gln	Ser	Ala	Phe	Ala	Gln	Ser	Glu	Pro	Glu	Leu	Lys	Leu	Glu	Ser	
	52				20					25		•			30			
	54	gtg	gtg	att	gtc	agt	cgt	cat	ggt	gtg	cgt	gct	cca	acc	aag	gcc	acg	144
		Val																
	56			35			_		40		_			45				
		caa	cta		caq	gat	gtc	acc	cca	qac	qca	tqq	cca	acc	tgg	ccg	gta	192
		Gln																
	60		50			•		55		-		-	60		-			
W>	62			aat.	taa	cta	aca	cca	can	aat	dat	σασ	cta	atc	acc	tat	ctc	240
		Lys																
		.65 ·]	12		70		5	1	3	75	-	_		-	80	
		gga	cat	tac	саа	cac		cat	cta	qta	acc	-	gga	tta	cta	aca		288
		Gly																
	68	1		- 1		85	•				90	- E-	-1			95	-	•

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				ccg Pro 100													33	36
74 75				cgt Arg					gcc				Gly	ctg			38	3 4
			gca	ata Ile				acc									43	32
82 83		tta		aat Asn			aaa					caa					4 8	30
86	aac	_		gac Asp		atc		-	_		gga					gac	52	28
				cat His 180													57	76
				caa Gln													62	24
	Ser		Ser	tta Leu				Leu					Lys				67	72
103		Asn		tca L Ser			Gly					Āla					7	720
				ctc E Leu		ı Gln					/ Met					Trp	7	768
				c acc e Thr 260	Asp					Asr					Leu		8	316
	Asn			a ttt n Phe		-			ı Arç	_			-	Āla			3	364
	Arg	-	Thi	c ccg		_	-	Let					Let				9	912
123		Pro		a aaa n Lys			Tyr					Pro					9	960
				c gga a Gly		. Asp					a Asn					Leu	10	908
130	Glu			tgg Trp 340	Thi					n Pro					Pro		10	056
		gaa	cto	g gtg	, ttt	gaa	cgc	t g	g cgt	cgg	g cta	ago	gat	aac	ago	cag	11	104

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135 136	Gly	Glu	Leu 355	Val	Phe	Glu	Arg	Trp 360	Arg	Arg	Leu	Ser	Asp 365	Asn	Ser	Gln	
138	taa	att	cad	att	tca	cta	atc	ttc	cad	act	tta	cad	cad	atα	cat	gat	1152
		Ile															1101
140	_	370	GIII	Val	Ser	пец	375	1116	. 01.11	1111	пец	380	GIII	Hec	ALG	vab	
																	1000
		acg															1200
143	Lys	Thr	Pro	Leu	Ser		Asn	Thr	Pro	Pro	_	Glu	Val	Lys	Leu		
144	385					390					395					400	
146	ctg	gca	gga	tgt	gaa	gag	cga	aat	gcg	cag	ggc	atg	tgt	tcg	ttg	gca	1248
147	Leu	Āla	Gly	Cvs	Glu	Glu	Arq	Asn	Ala	Gln	Glv	Met	Cys	Ser	Leu	Āla	
148			_	-	405					410	-		-		415		
	aat	ttt	acq	caa	atc	ata	aat	gaa	aca		ata	cca	aca	tac	agt	tta	1296
		Phe															
152	Cry	1110	1111	420	110	VUI	71011	014	425	1119	110	110	11114	430	OCI	. Dea	
														430			1222
	_	tct							Laa								1323
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156			435		•			440									
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162	<213	3> OF	RGAN	SM:	Esch	nerio	chia	coli	Ĺ								
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	7 <223> OTHER INFORMATION: n is any nucleotide																
)> SE				1 1 014	• • • •	LO 01	- y - 1.10	20100	JC L GC	-				•	
		Lys				Tlo	Dro	Pho	LOU	Sor	Lou	Lou	Tla	Dro	T - 211	Thr	
172		гуз	Ата	TIE	_	116	LIO	rne	пеп	10	ьeu	ьец	116	110	15	1111	
		~1	0	70.1 -	5	70.7	C1	0	C1		Cl	T	T	T		C	
	Pro	Gln	ser		Pne	Ата	GTU	ser		Pro	GIU	Leu	$r\lambda s$		GIU	ser	
176				20					25			_		30			
	Val	Val		Val	Ser	Arg	His	-	Val	Arg	Ala	Pro		Lys	Ala	Thr	
180			35					40					45				
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184		50					55					60					
187	Lys	Leu	Gly	Trp	Leu	Thr	Pro	Arg	Gly	Gly	Glu	Leu	Ile	Ala	Tyr	Leu	
188	65			_		70					75			•		80	
		His	Tvr	Gln	Ara	Gln	Ara	Leu	Val	Ala	Asp	Glv	Leu	Leu	Ala	Lvs	
192	1		- 1 -		85		5			90	1-	1			95	1	
	Tuc	Gly	Cvc	Dro		Sor	Glv	Gln	Val		Tla	Tla	Δla	Aen		Δen	
	цуз	Сту	Cys	100	GIII	Ser	Сту	0111	105	HΙα	110	110	пια	110	Vai	1150	
196	01	70	m)		T	m1	G1	C1		Dh.	7.1	70 1 -	C1		7.1.	Due	
	GIU	Arg		Arg	ьуѕ	THE	СТУ		Ala	Pne	Ald	Ald		ьеи	Ald	PIO	
200	_		115					120					125	_	_	_	
	Acn	Cvs	Ala	Ile	Thr	Val		Thr	Gln	Ala	Asp		Ser	Ser	Pro	Asp	
204	ASP											140					
207		130					135								_		
	Pro				Pro	Leu		Thr	Gly	Val	Cys		Leu	Asp	Asn		
208	Pro 145	130 Leu	Phe	Asn		150	Lys				155	Gln				160	
208	Pro 145	130	Phe	Asn		150	Lys				155	Gln				160	•
208	Pro 145	130 Leu	Phe	Asn		150	Lys				155	Gln				160	•
208 211 212	Pro 145 Asn	130 Leu	Phe Thr	Asn Asp	Ala 165	150 Ile	Lys Leu	Ser	Arg	Ala 170	155 Gly	Gln Gly	Ser	Ile	Ala 175	160 Asp	•

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223	Ser	Cys	Ser	Leu	Thr	Gln	Ala	Leu	Pro	Ser	Glu	Leu	Lys	Val	Ser	Ala		
224		210					215					220	-					
227	Asp	Asn	Val	Ser	Leu	Thr		Ala	Val	Ser	Leu		Ser	Met	Leu	Thr		
	225					230	1				235					240		
		Tla	Pho	T. 211	T.611	Gln	Gln	Δl =	Gln	Glv		Pro	Glu	Pro	Glu	-		
232	Giu	116	LITE	пец	245	OIII	CLII	ALG	GIII	250	Nec	LIO	Olu	110	255	TTP		
	C1	7)	т1 -	Шь		C	114 -	C1-			m	т	T			114 -		
	GIŸ	Arg	тте		Asp	Ser	HIS	GIN		ASII	Thr	Leu	ьeu		Leu	HIS		
236			~ 3	260	_	_	_	~ 3	265	_,	_	~1		270	_	_		
	Asn	Ala		Phe	Tyr	Leu	Leu		Arg	Thr	Pro	GLu		Ala	Arg	Ser	4	
240			275					280					285					
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248	305					310					315					320		
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252				-	325	-				330			-	-	335			
	Glu	Len	Asn	Tro		Leu	Pro	Glv	Gln		Asp	Asn	Thr	Pro		Glv		
256	0_0		11011	340				011	345					350		0-1		
	Gl v	Glu	T.011			Glu	Δra	Trn		Δra	T.011	Ser	Asn		Ser	Gln		
260	СТУ	Giu	355	val	THE	Giu	ALG	360	ALG	Ary	пеп	Ser	365	AŞII	Der	GIII		
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	пр		GIII	vaı	ser	Leu		FIIe	GIII	IIIL	ьеи		GIH	Mec	ALG	Asp		
264	-	370	_	-	~	_	375	m1	Б.	<u> </u>	C 1	380	77 - 7	т	т	m1		
	_	Thr	Pro	Leu	Ser	Leu	Asn	Thr	Pro	Pro	_	GIU	vaı	ьуs	Leu			
	385			_		390	_	<u>.</u>			395		_	_	_	400		
	Leu	Ala	GТЪ	Cys		Glu	Arg	Asn	Ala		GLY	Met	Cys	Ser		Ala		
272					405					410					415			
	Gly	Phe	Thr		Ile	Val	Asn	Glu	Ala	Arg	Ile	Pro	Ala	Cys	Ser	Leu		
276				420					425					430				
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					DRMA:	rion:	: Pr:	imer	for	PCR								
)> SE																
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)> SI				, a a		- u - g -		, - , - ,								
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)> FE			אור א איז ר	ייי	. n	:	£ c	DCD								
						rion:	: rr:	ımer	ror	PCR								
)> SE	-															2.2
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VERIFICATION SUMMARY

DATE: 06/25/2001 PATENT APPLICATION: US/09/777,566A TIME: 11:28:45

Input Set : A:\DIVER1370-6.ST25.txt

Output Set: N:\CRF3\06252001\1777566A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1